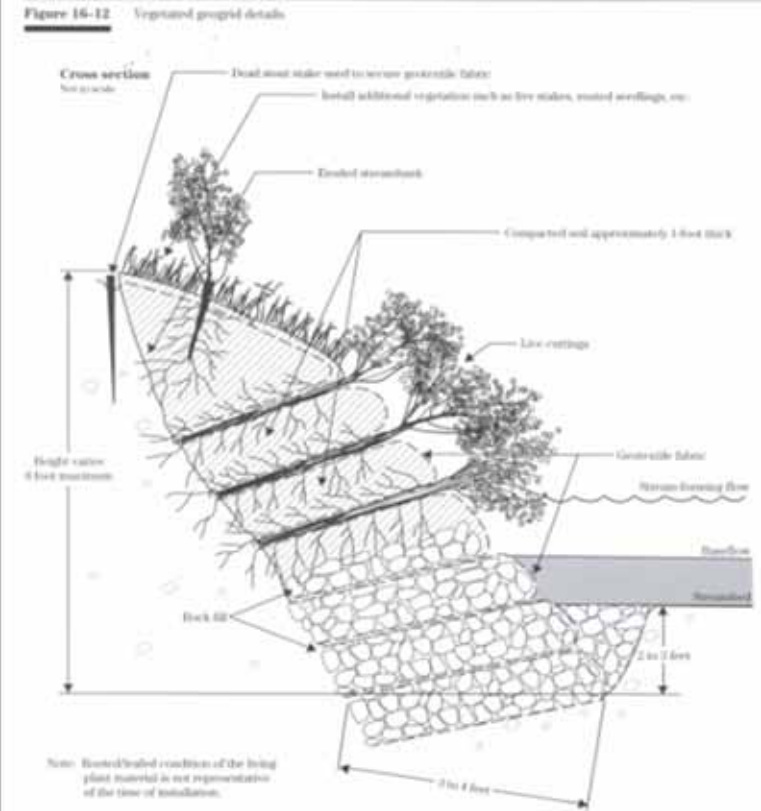
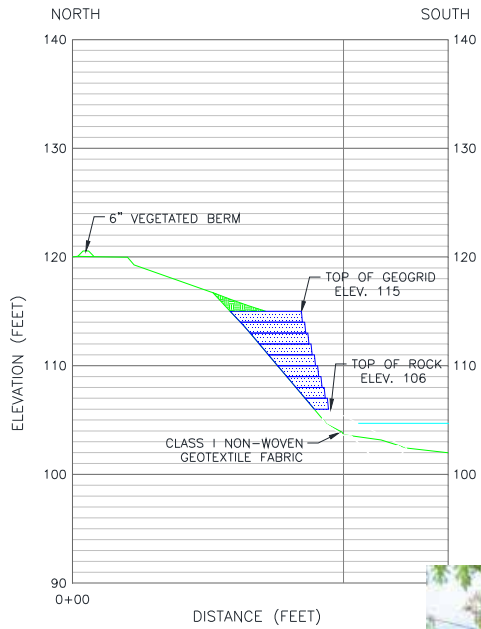


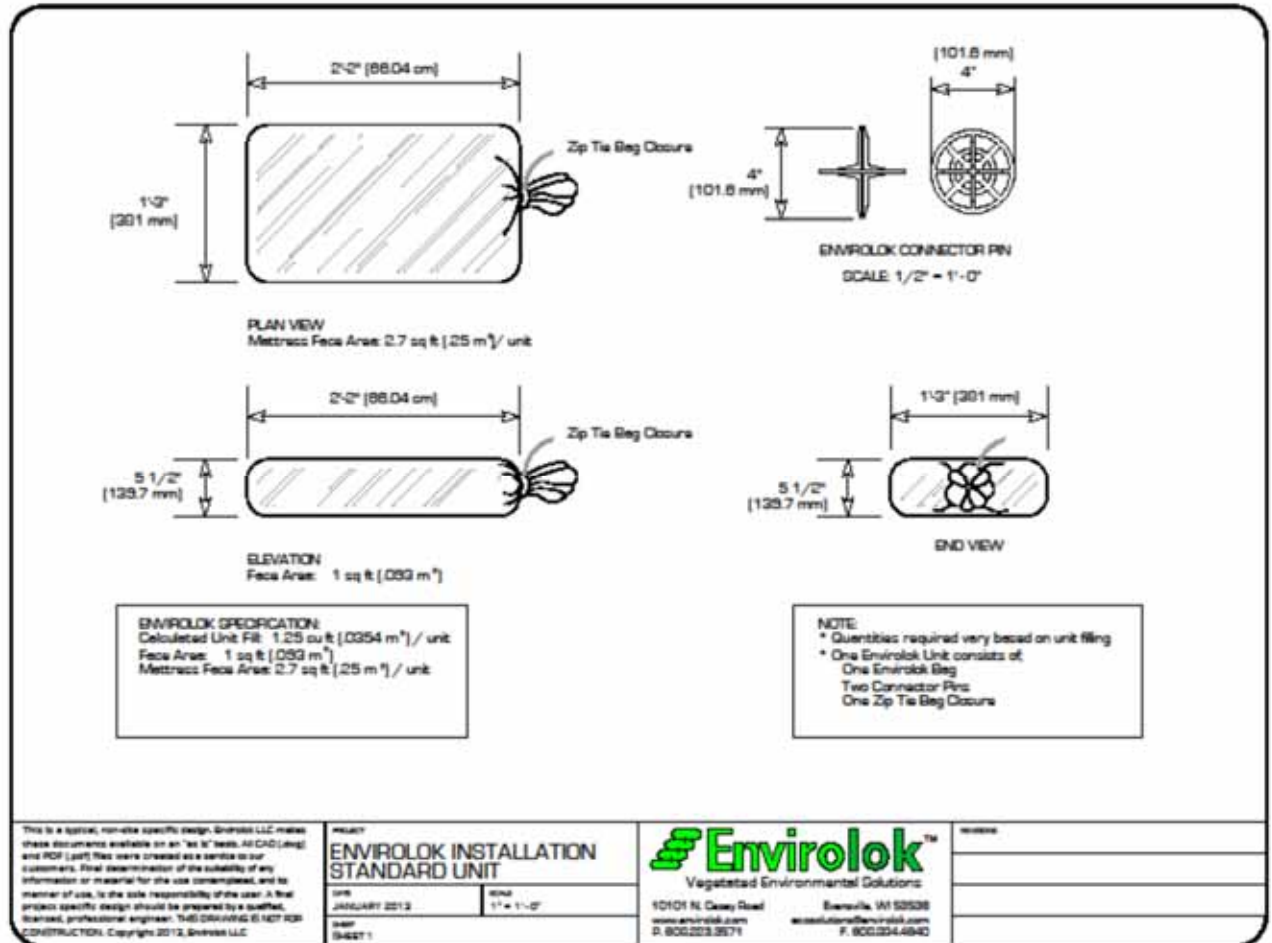
SAMPLES AND CASE STUDIES

| 2015 WAL

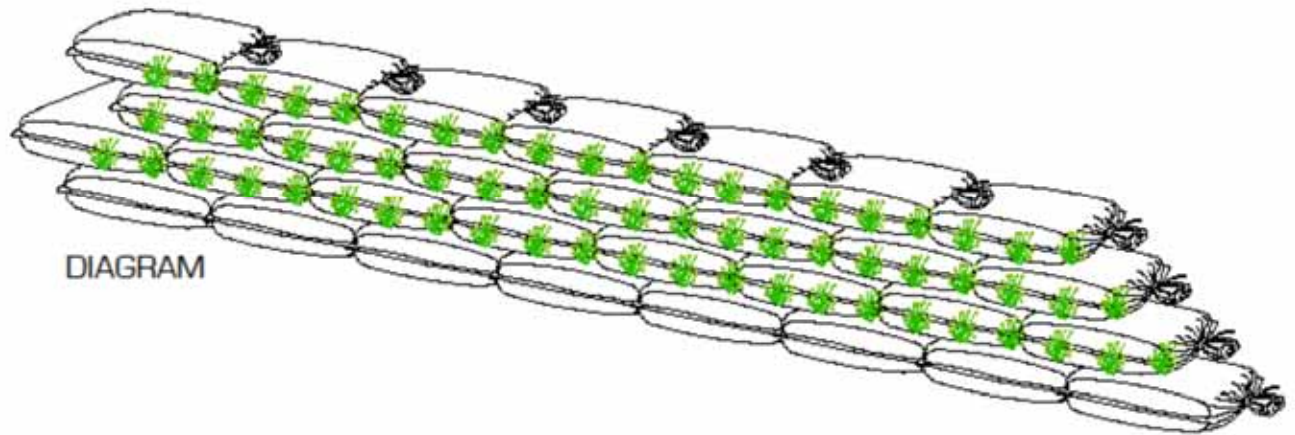
Vegetated Geogrid



Geotextile Bag Walls



Geotextile Bag Walls



DIAGRAM

NOTE:
 Live Plant Material Planted Between Envirolok Courses
 Do Not Rupture Envirolok Units
 Recommended Density; Three Plants per Envirolok Unit

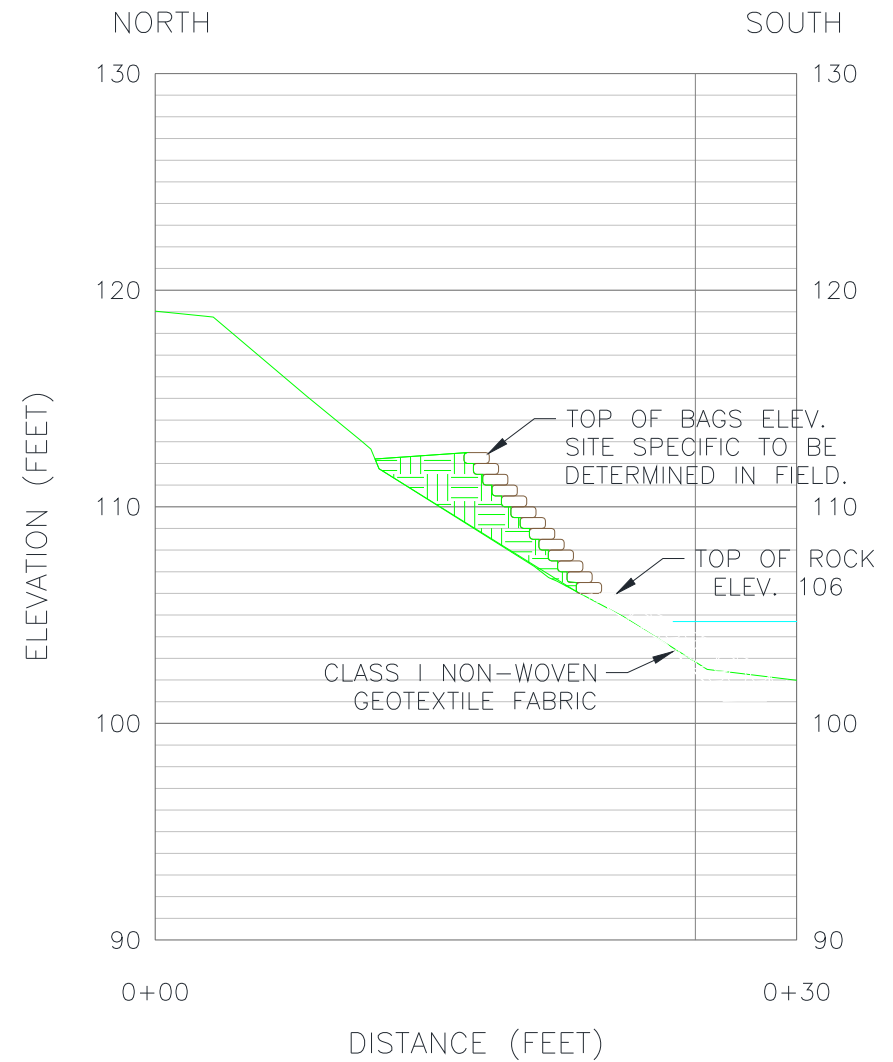
This is a typical, non-site specific design. Envirolok LLC makes these documents available on an "as is" basis. All CAD (.dwg) and PDF (.pdf) files were created as a service to our customers. Final determination of the suitability of any information or material for the use contemplated, and its manner of use, is the sole responsibility of the user. A final project specific design should be prepared by a qualified licensed, professional engineer. This DRAWING IS NOT FOR CONSTRUCTION. Copyright 2013, Envirolok LLC.

PROJECT
**ENVIROLOK INSTALLATION
 LIVE PLANTING DIAGRAM**
 DATE
 JANUARY 2013
 SCALE
 1/2" = 1'-0"

Envirolok™
 Vegetated Environmental Solutions
 10101 N. Casey Road
 Everetts, WA 98536
 www.envirolok.com
 P. 800.229.9571

REVISED

Geotextile Bag Walls





Deltalok GTX Bag

The Deltalok System evolves bag work construction practices by combining an innovative and patented interlocking method with a vegetation sustainable GTX soil bag.



Deltalok Standard Connector

The Deltalok Connector is placed between sand/soil filled Deltalok GTX bags to dramatically increase the shear strength of the bag structure. The result is an interlocking soil mass that promotes and sustains vegetation.

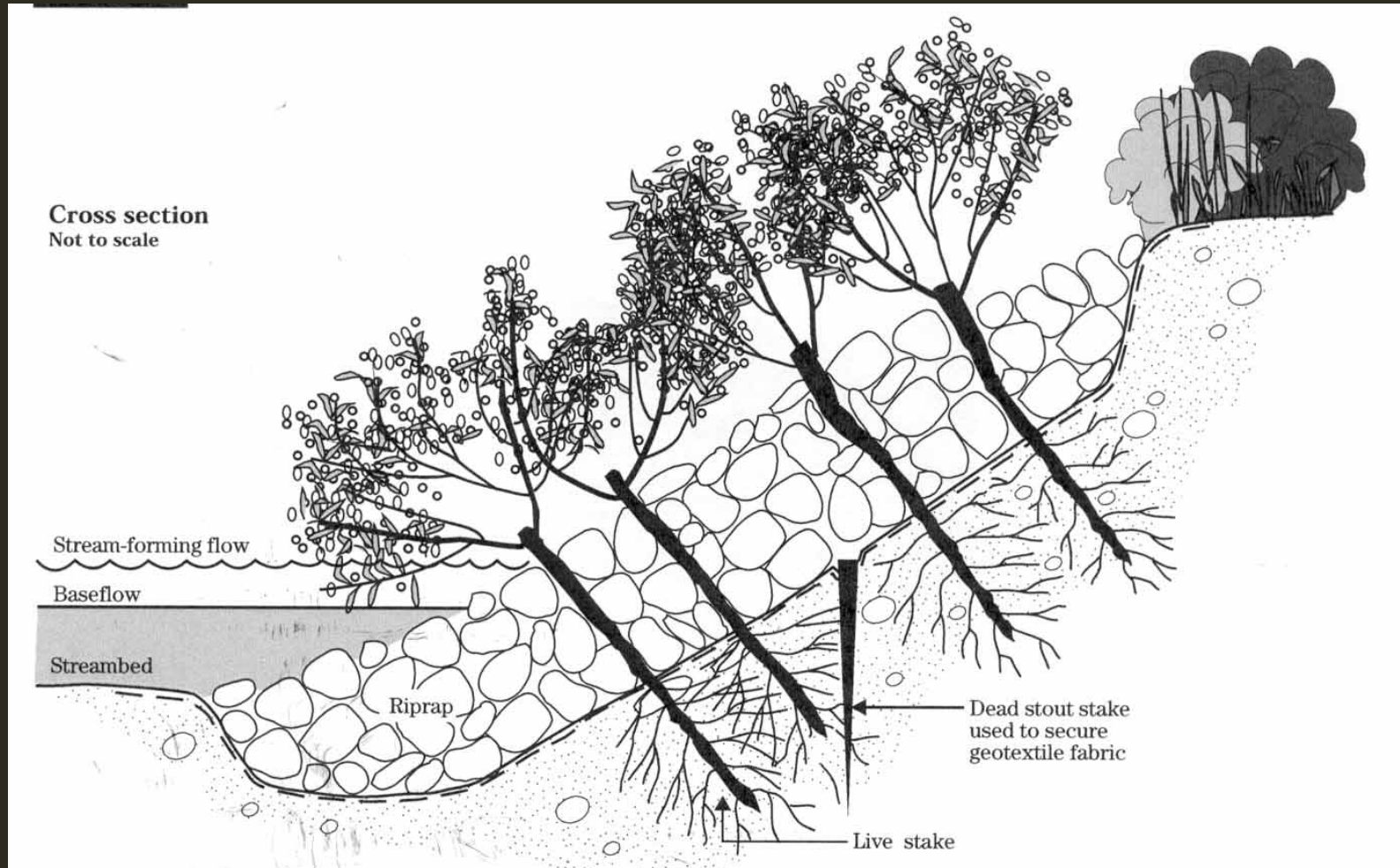


Deltalok Engineered Connector

The connector also provides a positive mechanical connection to geogrid in the construction of steep slopes and retaining wall structures where needed.

Techniques

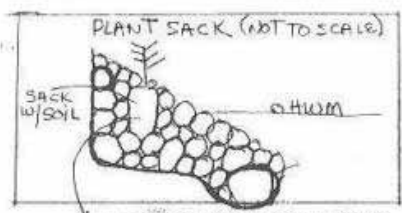
Vegetated Riprap



1+06

NOESGES PHASE II
TYPICAL CROSS SECTION STATIONS 0+80 - 2+00

1+04



ROCK GRADATION

% PASSING	SIZE OF STONE (in.)
100	10-12.5
85	8-10
50	5-7.5
15	1.5-2.5

1+02

NOTES

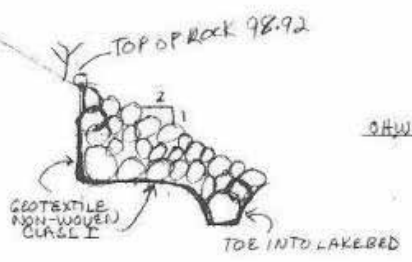
1. TOE INTO LAKEBED 1' X 1'
2. NON-WOVEN CLASS I GEOTEXTILE PLACED UNDER ROCK
3. WRAP GEOTEXTILE ONE FOOT ON ENDS
4. ROCK - d50 5 INCH
5. ROCK RIPRAP TO HAVE A FINISHED SLOPE OF 2:1
6. TBM - LAST PERMANENT STEP OF WOOD DECKING - NE CORNER - ELEVATION 100.00

1+00

0+98

0+96

NOTE: CHANGE EVERY OTHER SACK FROM VERTICAL TO HORIZONTAL



Shrubs for sacks

0+94

Meadowsweet	<i>Spiraea alba</i>
Sweet Gale	<i>Myrica gale</i>
Speckled alder	<i>Alnus incana</i>

Vertical Geotextile Bag Photo



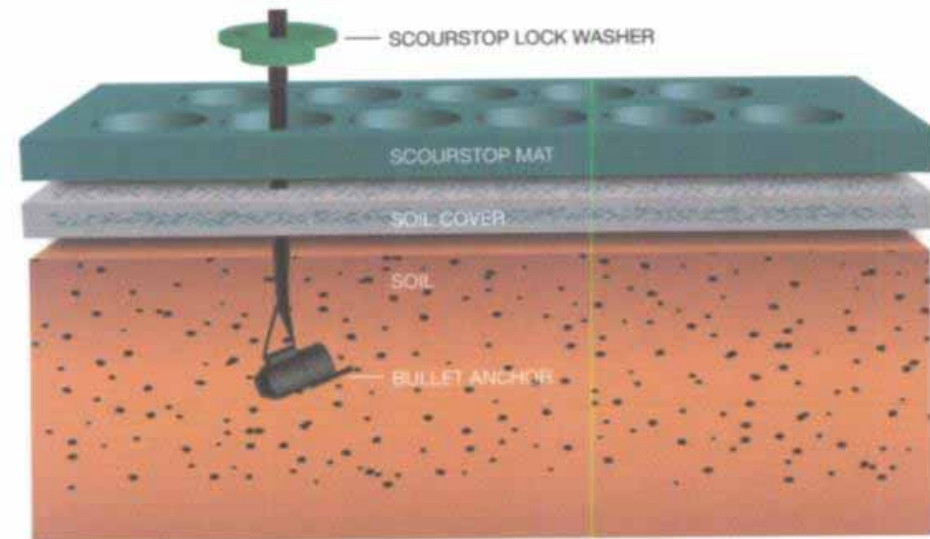


Scourstop™

Literature ▼



culvert outlets



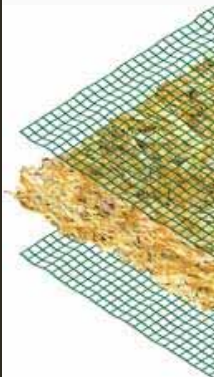
Flexamat is a "Tied Concrete Block Mat".

(Tied Concrete Block Mat is a generic term for Flexamat.)

Flexamat consists of concrete shapes, locked together with a high strength, polypropylene geogrid. There are openings around each concrete block that give Flexamat the flexibility and enable it to be packaged in rolls. The openings also allow vegetation to grow through the mat. Eventually, vegetation will completely cover Flexamat. It can be manufactured with various backings such as non-woven fabric to stop vegetation growth or a TRM (turf re-enforcement mat) depending on the soil conditions and other factors.

There's a wide range of applications where Flexamat is utilized, but it is most commonly used for erosion control. Flexamat is used to [control erosion](#) in channels, outlet protection, on slopes, for shoreline protection and many other applications.

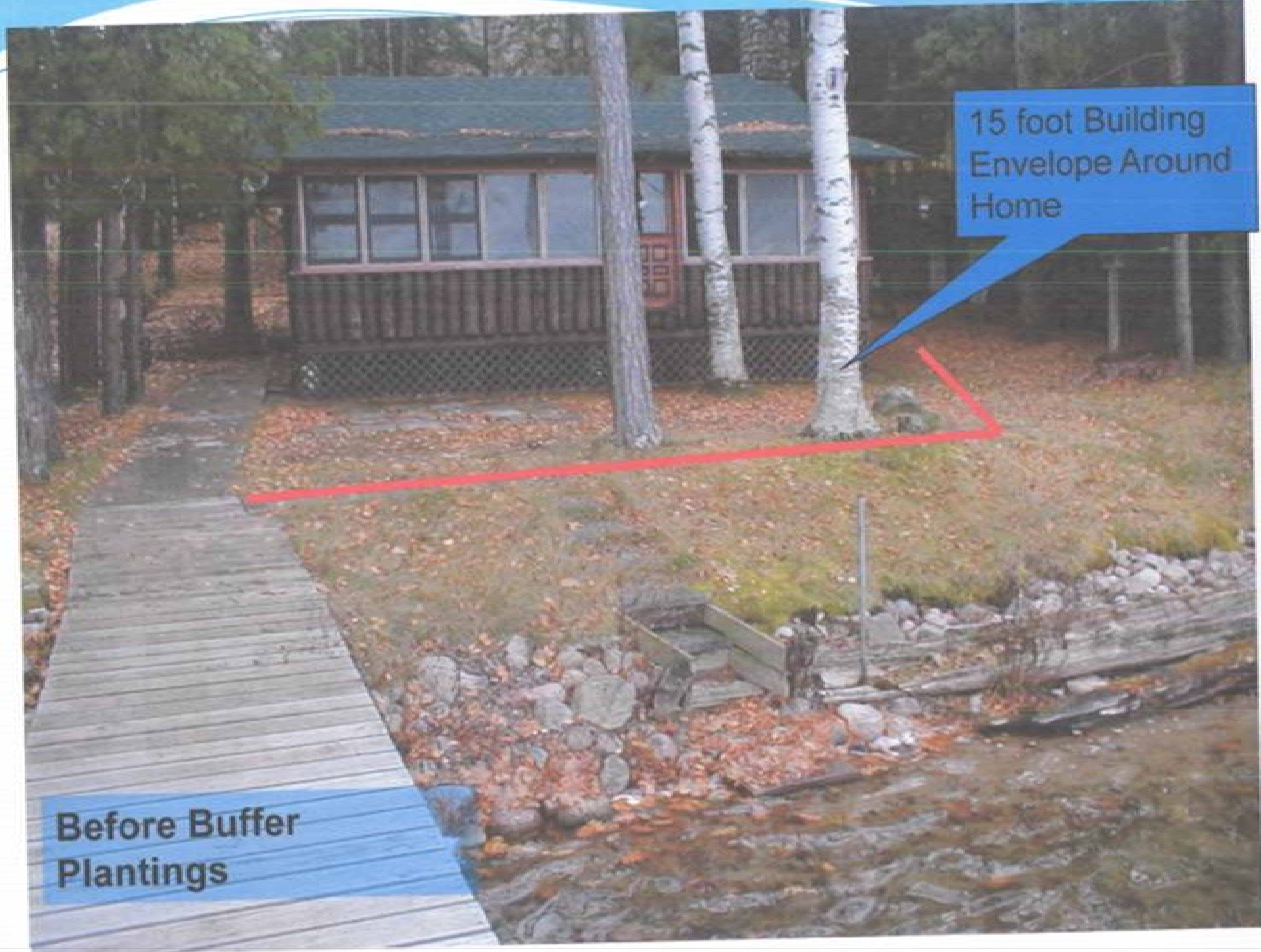
Flexamat offers permanent, hard armor protection, with a natural vegetated appearance. Flexamat may be mowed over with commercial mowing equipment or left to grow wild. Besides grass, there are many other types of native plant species that can be planted to grow within the mat. For example, Willow Saplings were planted through Flexamat for a streambank re-vegetation project.





PROJECT EXAMPLES BEFORE / AFTER





15 foot Building Envelope Around Home

Before Buffer Plantings



After Buffer Plantings



BEFORE



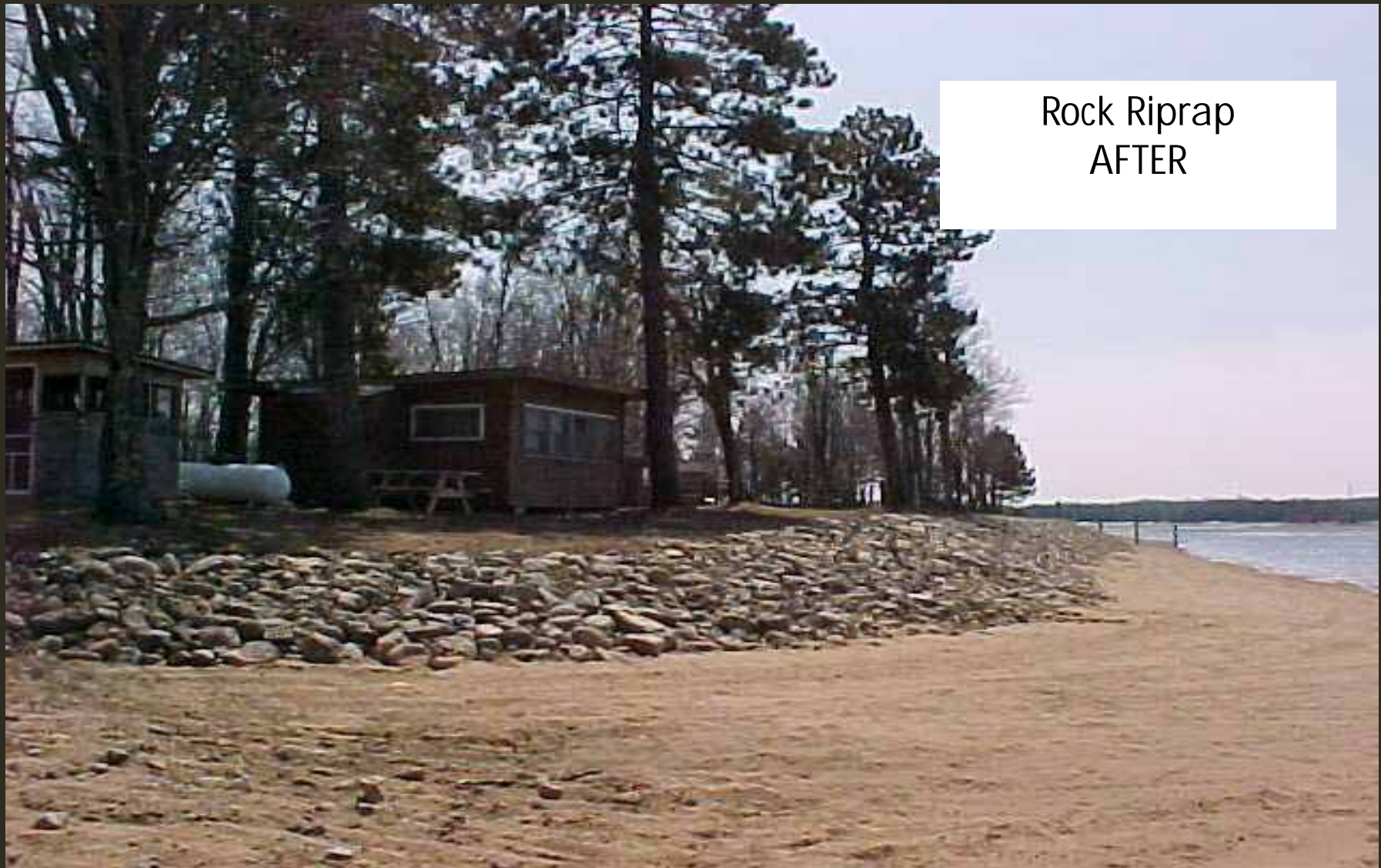
AFTER

BEFORE

Seawall Removal



Rock Riprap
AFTER



BEFORE



AFTER





BEFORE





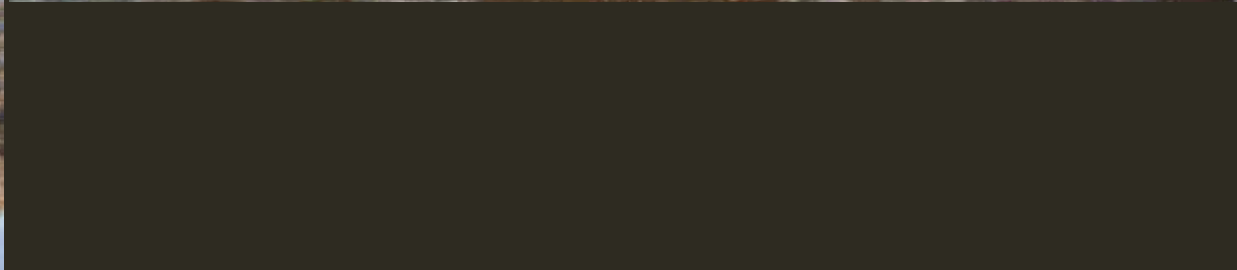






























Before – Oct 2009



After - Oct 2012







After 5 months of growth (May 2010 to Oct 2010)





Vegetated Retaining Walls - Geotextile Bags (Install)



Vegetated Retaining Walls - Geotextile Bags (After)



One growing season later – Summer 2012

(left side of stairs)

- Native plants are growing successfully
- Bags are camouflaged and will break down in time (biodegradable)

June 2010 Before



June 2011



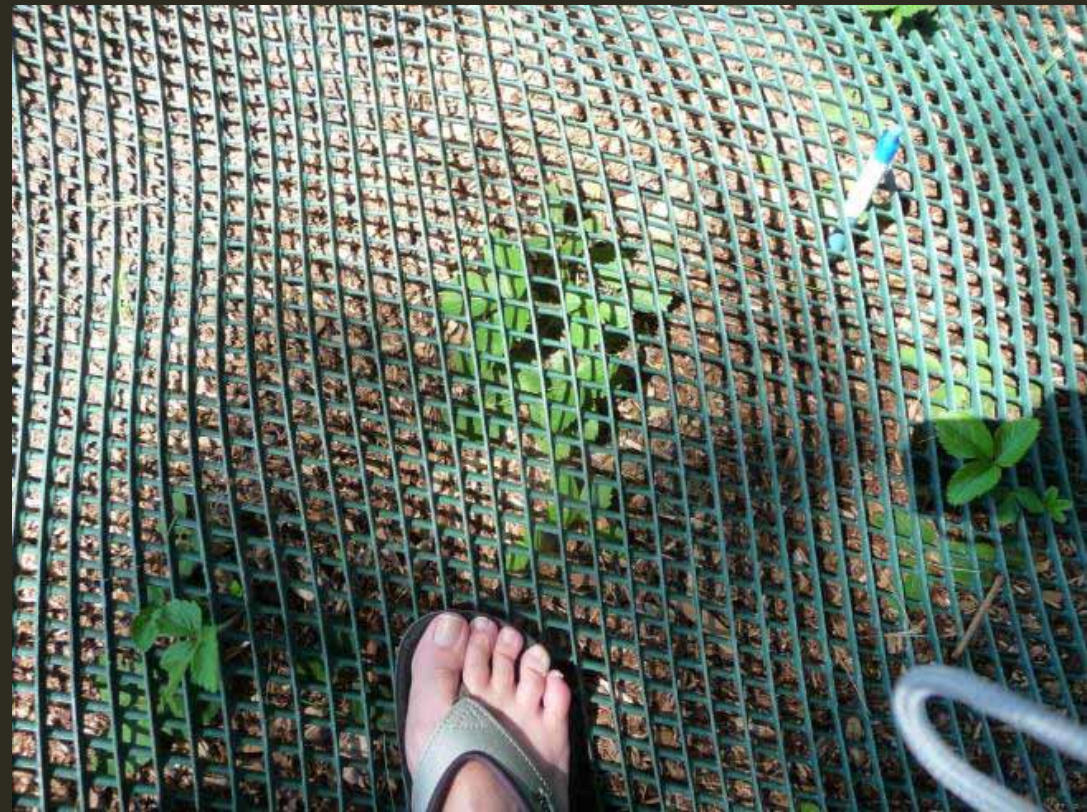
June 2012

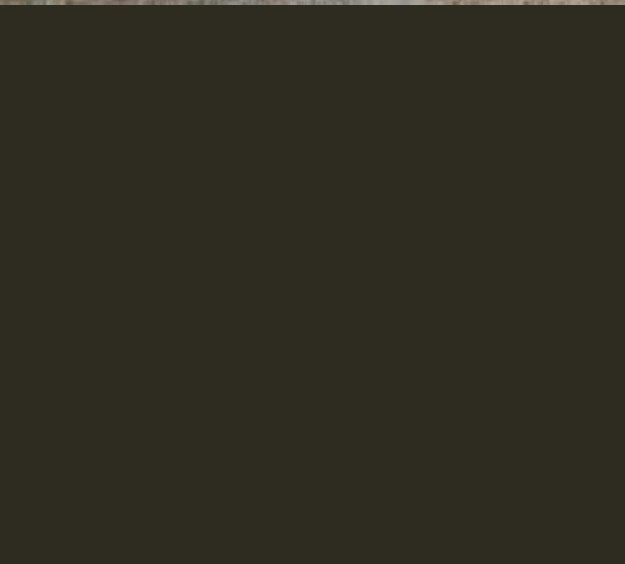


06/27/2012 13:44











QUESTIONS?

Thank you for
your interest in
Shoreline
Protection and
Erosion Control